

PLANS FOR CONSTRUCTION OF:

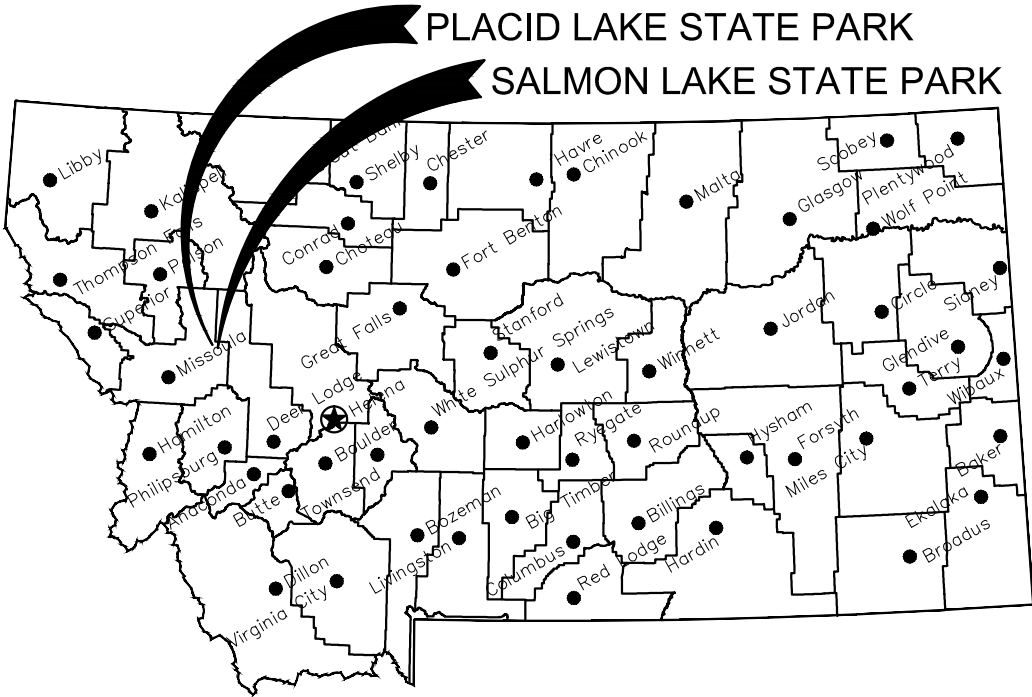
# RECREATIONAL BICYCLE CAMPING PROJECT

## SALMON LAKE AND PLACID LAKE STATE PARKS

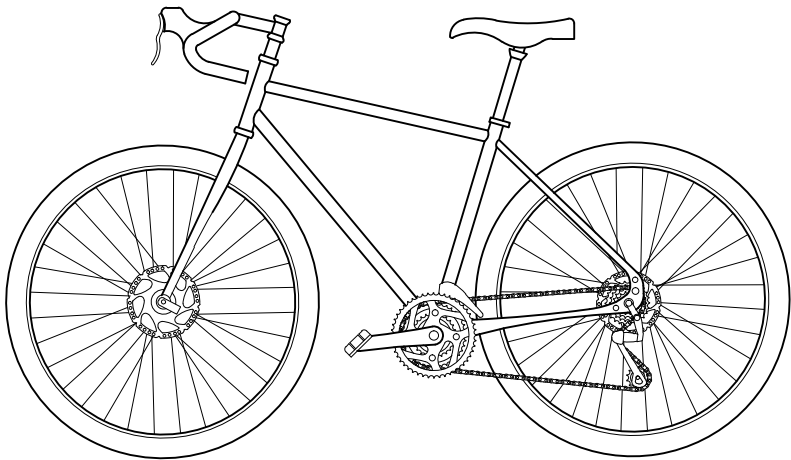
NEAR SEELEY LAKE, MONTANA  
FWP #7166601

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PROJECT LOCATION MAP



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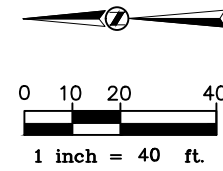
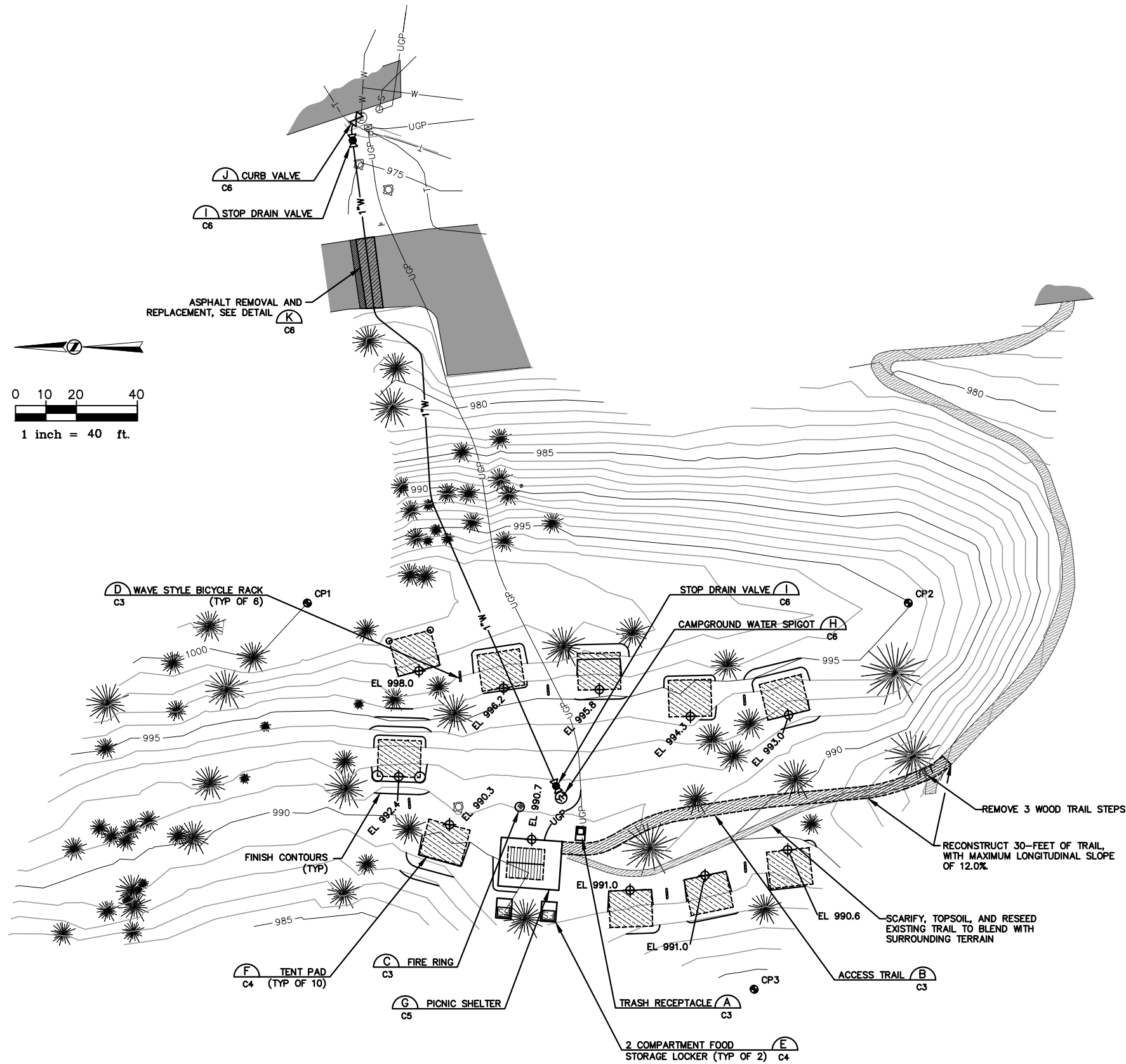


Montana Fish,  
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TITLE SHEET  
RECREATIONAL BICYCLE CAMPING PROJECT  
SALMON LAKE AND PLACID LAKE STATE PARKS  
FWP #7166601



28 ANTLER AVENUE  
CLANCY, MT 59634  
406-443-6111  
jeff@larsonce.com



LEGEND

EXISTING FEATURES

BUILDING

ASPHALT

LIGHT POLE

SIGN

CONIFER TREE

TRAIL

YARD HYDRANT

ELECTRICAL PANEL OR TRANSFORMER

FIRE RING

STUMP

BENCH

BACKSTOP

PROJECTOR STAND

TELEPHONE

UNDERGROUND POWER

SEWER

SEWER

PROPOSED FEATURES

CONCRETE

1" HDPE WATER PIPING

UGP UNDERGROUND POWER

2 COMPARTMENT FOOD STORAGE LOCKER

CAMPFIRE RING

WATER SPIGOT

BIKE RACK

TRASH RECEPTACLE

NEW TRAIL

NEW CURB VALVE

NEW STOP DRAIN VALVE

TENT PAD

PICNIC SHELTER

SPOT ELEVATION

CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	10,000.00	10,000.00	1,000.00	1/2" IRON PIN
CP2	9,802.76	9,999.99	995.06	1/2" IRON PIN
CP3	9,853.37	9,873.24	995.97	1/2" IRON PIN

\* ELEVATION DATUM AND COORDINATE SYSTEM ARE ASSUMED

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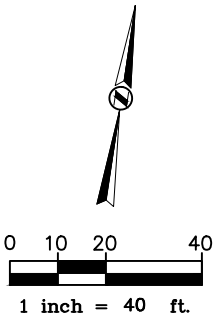
**SALMON LAKE SITE PLAN**  
RECREATIONAL BICYCLE CAMPING PROJECT  
SALMON LAKE AND PLACID LAKE STATE PARKS  
FWP #7166601

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SHEET: C1



NOTE - ADDITIVE ALTERNATE #1:  
ALL WORK TASKS OCCURING AT PLACID LAKE  
STATE PARK AS IDENTIFIED ON THIS SHEET  
AND OTHER DRAWINGS IN THIS PLAN SET  
ARE INCLUDED IN ADDITIVE ALTERNATE #1.



LEGEND

EXISTING FEATURES

BUILDING

ASPHALT

WELL

CONIFER TREE

TRAIL

LANDSCAPING ROCK

PICNIC TABLE

YARD HYDRANT

ELECTRICAL PANEL OR TRANSFORMER

METER BASE

STUMP

UNDERGROUND POWER

WATER MAIN

PROPOSED FEATURES

CONCRETE

1" W HDPE WATER PIPING

UNDERGROUND POWER

2 COMPARTMENT FOOD STORAGE LOCKER

CAMPFIRE RING

WATER SPIGOT

BIKE RACK

TRASH RECEPTACLE

TENT PAD

NEW TRAIL

NEW CURB VALVE

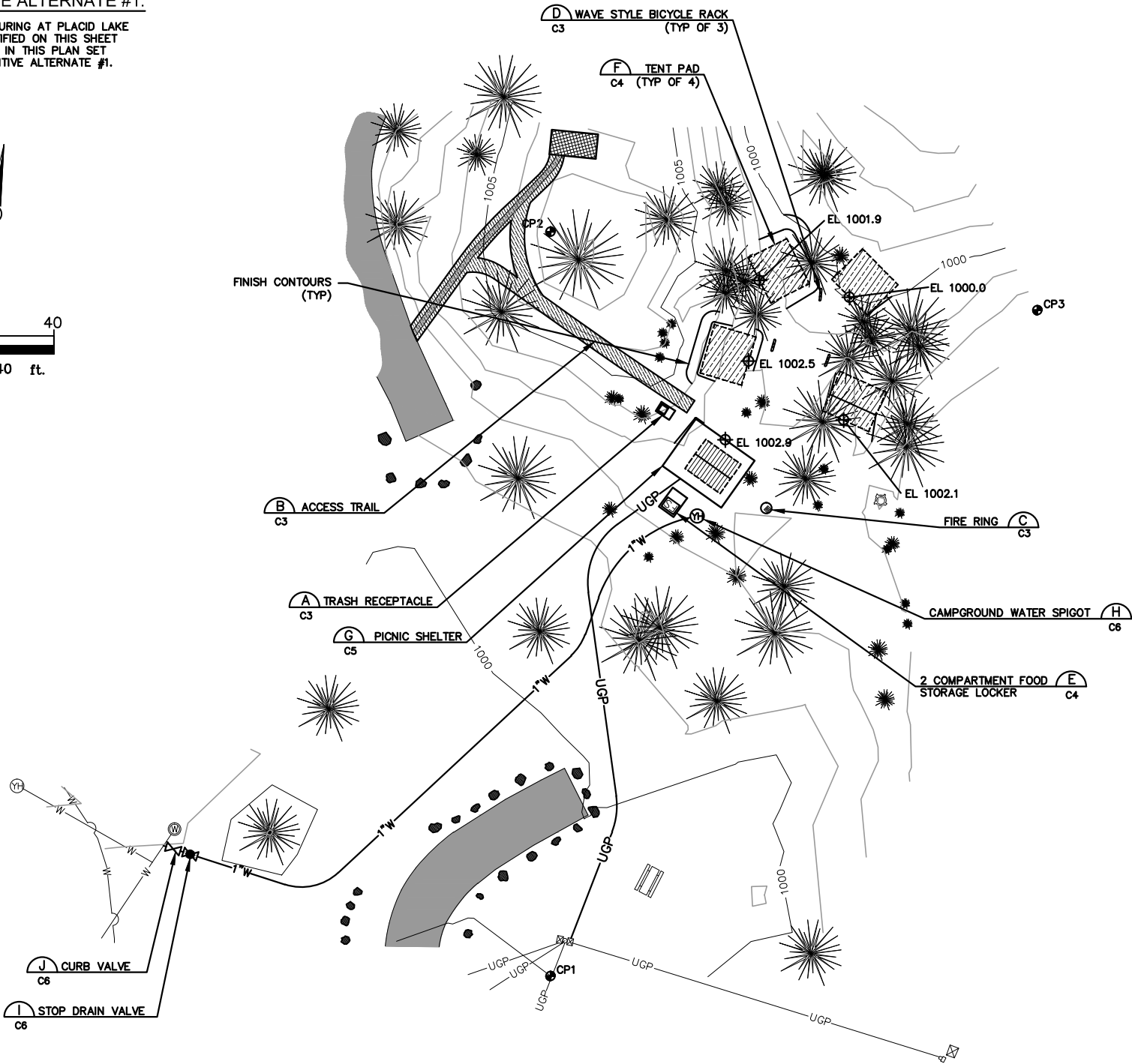
NEW STOP DRAIN VALVE

PICNIC SHELTER

SPOT ELEVATION

CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	10,000.00	10,000.00	1,000.00	1/2" IRON PIN
CP2	10,206.80	10,000.01	1,007.50	1/2" IRON PIN
CP3	10,184.99	10,135.26	1,002.84	1/2" IRON PIN

\* ELEVATION DATUM AND COORDINATE SYSTEM ARE ASSUMED



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PLACID LAKE SITE PLAN  
RECREATIONAL BICYCLE CAMPING PROJECT  
SALMON LAKE AND PLACID LAKE STATE PARKS  
FWP #7166601

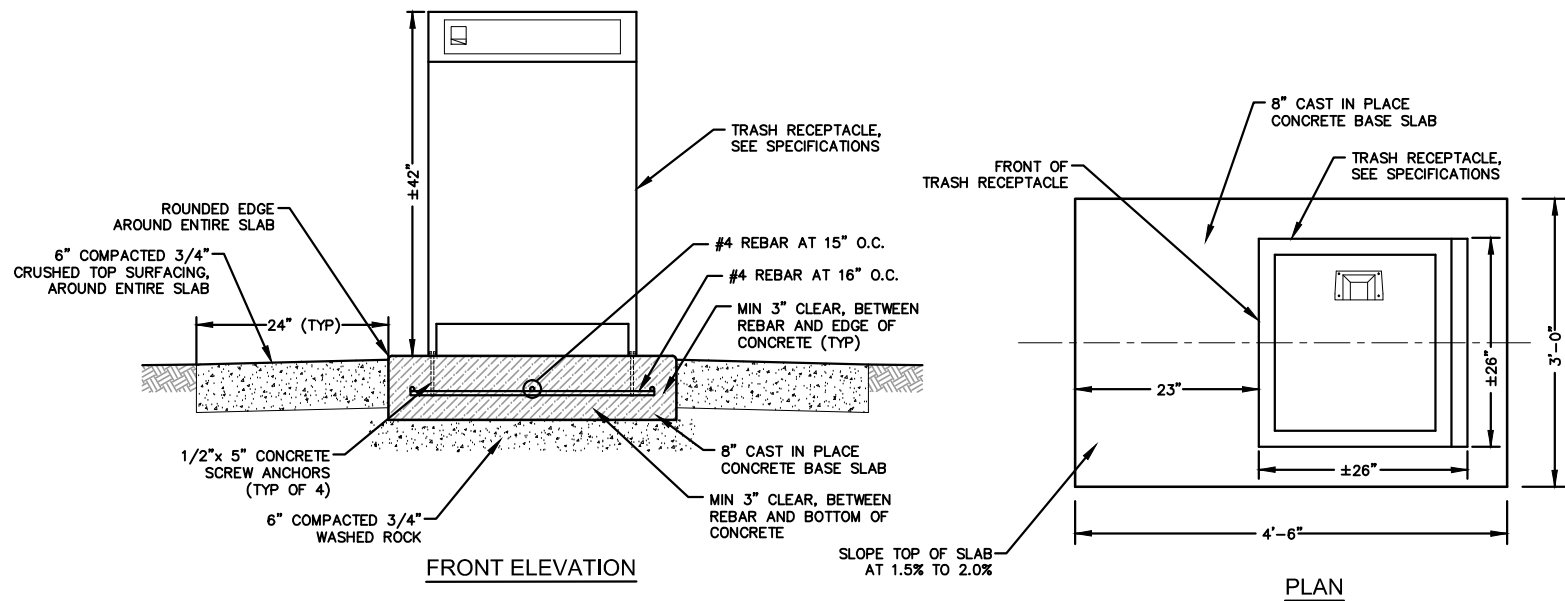


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jeff@larsonce.com

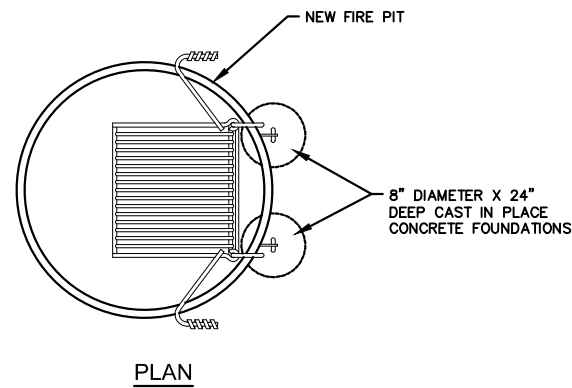
SHEET:

C2

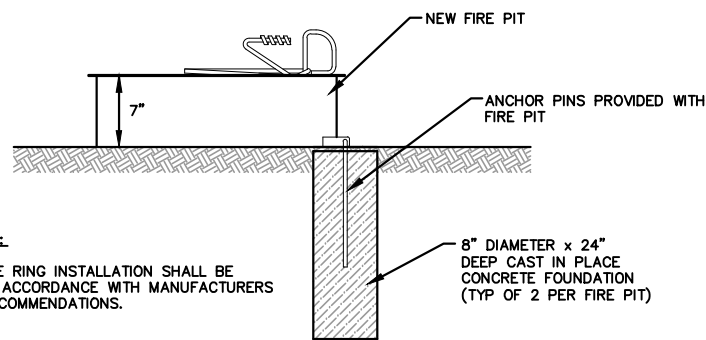




**TRASH RECEPTACLE** A  
NO SCALE C1,C2



**PLAN**

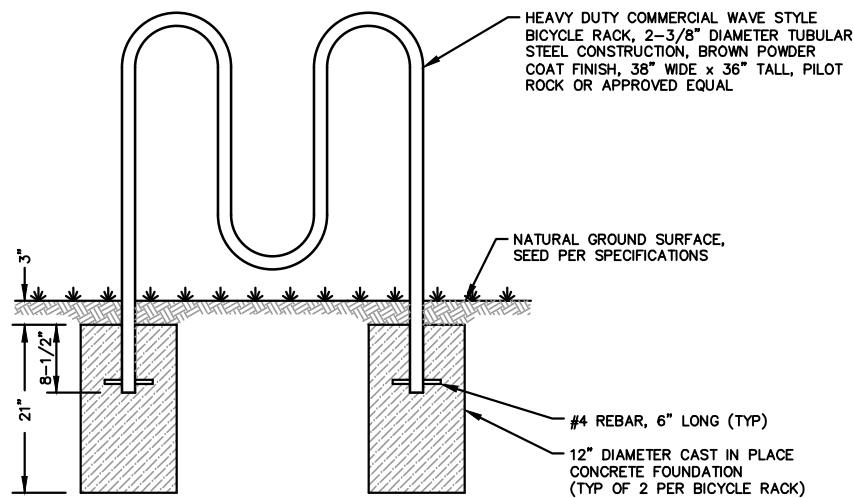


**SECTION**

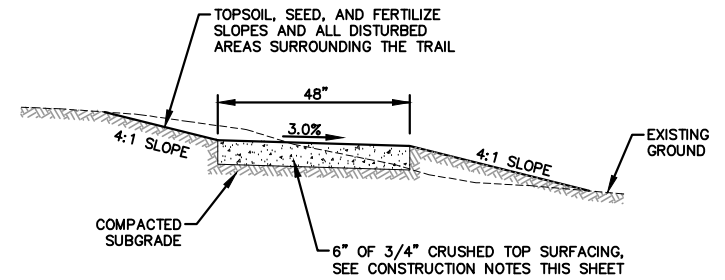
- NOTES:**
- FIRE RING INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

**FIRE RING DETAIL** C  
NO SCALE C1,C2

**NOTE:**  
THIS BIKE RACK IS SUITABLE FOR 5 BIKES MAXIMUM.



**WAVE STYLE BICYCLE RACK** D  
NO SCALE C1,C2



**ACCESS TRAIL** B  
NO SCALE C1,C2

## CONSTRUCTION NOTES:

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS SPECIFICATIONS", SIXTH EDITION (MPW).
- BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES. THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND WERE DERIVED PRIMARILY FROM AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF PRIVATE UTILITIES WITHIN THE PROJECT AREA, NOT LOCATED BY UTILITY COMPANIES.
- ALL DISTURBED AREAS AND AREAS DESIGNATED IN THE PLANS FOR SEEDING SHALL BE TOPSOILED, SEEDED, MULCHED, AND FERTILIZED (SEE MPW SEEDING SPECIFICATIONS). SALVAGED TOPSOIL SHALL BE SPREAD EVENLY OVER DISTURBED AREAS. SEED MIX SHALL BE NATIVE DRYLAND MIX AS FOLLOWS:

PLANT SPECIES	LBS/ACRE
WESTERN WHEATGRASS	4 LBS
BLUEBUNCH WHEATGRASS	10 LBS
MOUNTAIN BROME	11 LBS
ROUGH FESCUE	3 LBS
TOTALS	28 LBS

- ALL EXCAVATION AND EMBANKMENT ON THIS PROJECT, SHALL MEET THE REQUIREMENTS OF MPW SPECIFICATION 02/230 STREET EXCAVATION, BACKFILL AND COMPACTION.
- CONCRETE SHALL BE M-4000 AS DEFINED BY MPW SPECIFICATION 03/310 STRUCTURAL CONCRETE. REINFORCING STEEL SHALL BE ASTM 615, GRADE 60.
- CONCRETE SLABS AND SUPPORT PADS SHALL BE CROSS SLOPED AT A MAXIMUM 1.8% OR AS INDICATED.
- ALL TESTING OF CONCRETE REQUIRED BY MPW SHALL BE PROVIDED BY AND INDEPENDENT TESTING FIRM AT THE EXPENSE OF THE CONTRACTOR. A MINIMUM OF ONE SET OF CONCRETE TESTS SHALL BE PROVIDED FOR EACH STATE PARK.
- WATER PIPING SHALL BE 1" DR 9 HDPE PIPE INSTALLED WITH A MINIMUM OF 6-FOOT COVER, AND BEDDED PER MPW SPECIFICATIONS.
- CRUSHED TOP SURFACING FOR GRAVEL SURFACING SHALL MEET THE FOLLOWING SPECIFICATIONS INCLUDING BINDER OR BLENDING MATERIAL:

SIEVE SIZE	% PASSING
3/4" SIEVE	100%
No. 4 SIEVE	40-80%
No. 10 SIEVE	25-60%
No. 200 SIEVE	8-20%

IN ADDITION, THE PORTION PASSING THE NO. 200 SIEVE CANNOT EXCEED 2/3 OF THE PORTION PASSING THE #40 SIEVE; THE MAXIMUM LIQUID LIMIT FOR THE MATERIAL PASSING THE NO. 40 SIEVE SHALL NOT EXCEED 35, WHILE THE PLASTICITY INDEX CAN VARY BETWEEN 3 AND 10; THE WEAR FACTOR SHALL NOT EXCEED 50% AT 500 REVOLUTIONS; AND AT LEAST 20% OF THE AGGREGATE RETAINED ON NO. 4 SIEVE SHALL HAVE A FRACTURED FACE.

- IMPORT MATERIAL REQUIRED TO COMPLETE EARTHWORK SHALL BE IMPORTED FROM OFF-SITE AND SHALL BE CLEAN MATERIAL SUITABLE FOR FILL MATERIAL. EXCESS EXCAVATION MATERIALS SHALL BE REMOVED FROM THE STATE PARK AND DISPOSED OF BY THE CONTRACTOR IN A LOCATION APPROVED BY THE ENGINEER.
- WHERE SHALLOW FILL INTERSECTS EXISTING TREES, CARE WILL BE TAKEN NOT TO DAMAGE THE TREE, USE HAND WORK AS NEEDED TO PROTECT THE TREE FROM DAMAGE.

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**NOTES AND DETAILS**  
RECREATIONAL BICYCLE CAMPING PROJECT  
SALMON LAKE AND PLACID LAKE STATE PARKS  
FWP #7166601



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CLANCY, MT 59634  
406-443-6111  
jeff@larsonce.com

SHEET: C3

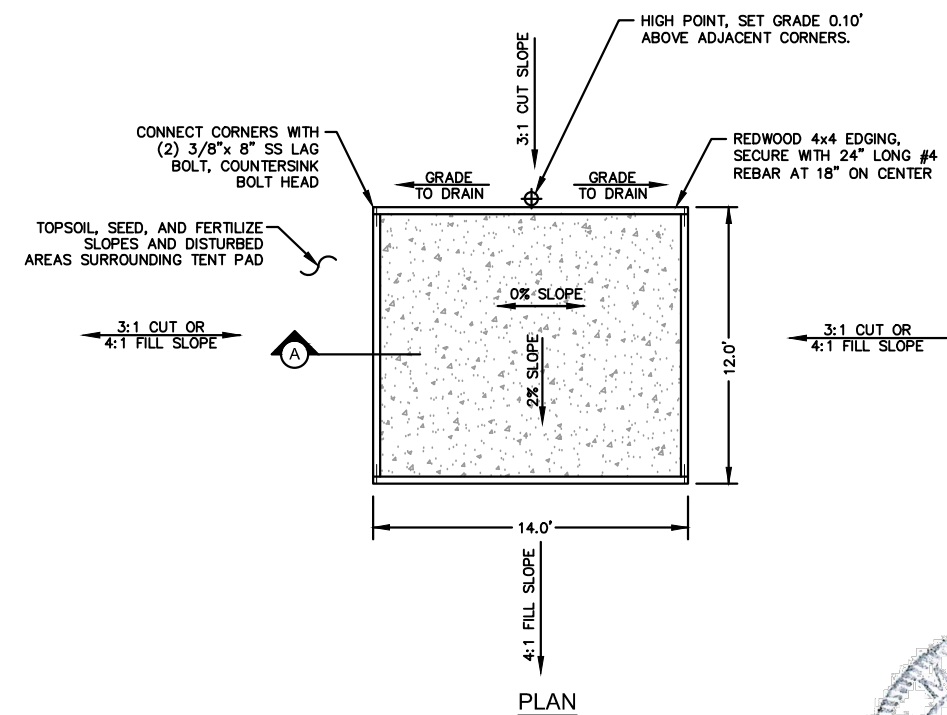




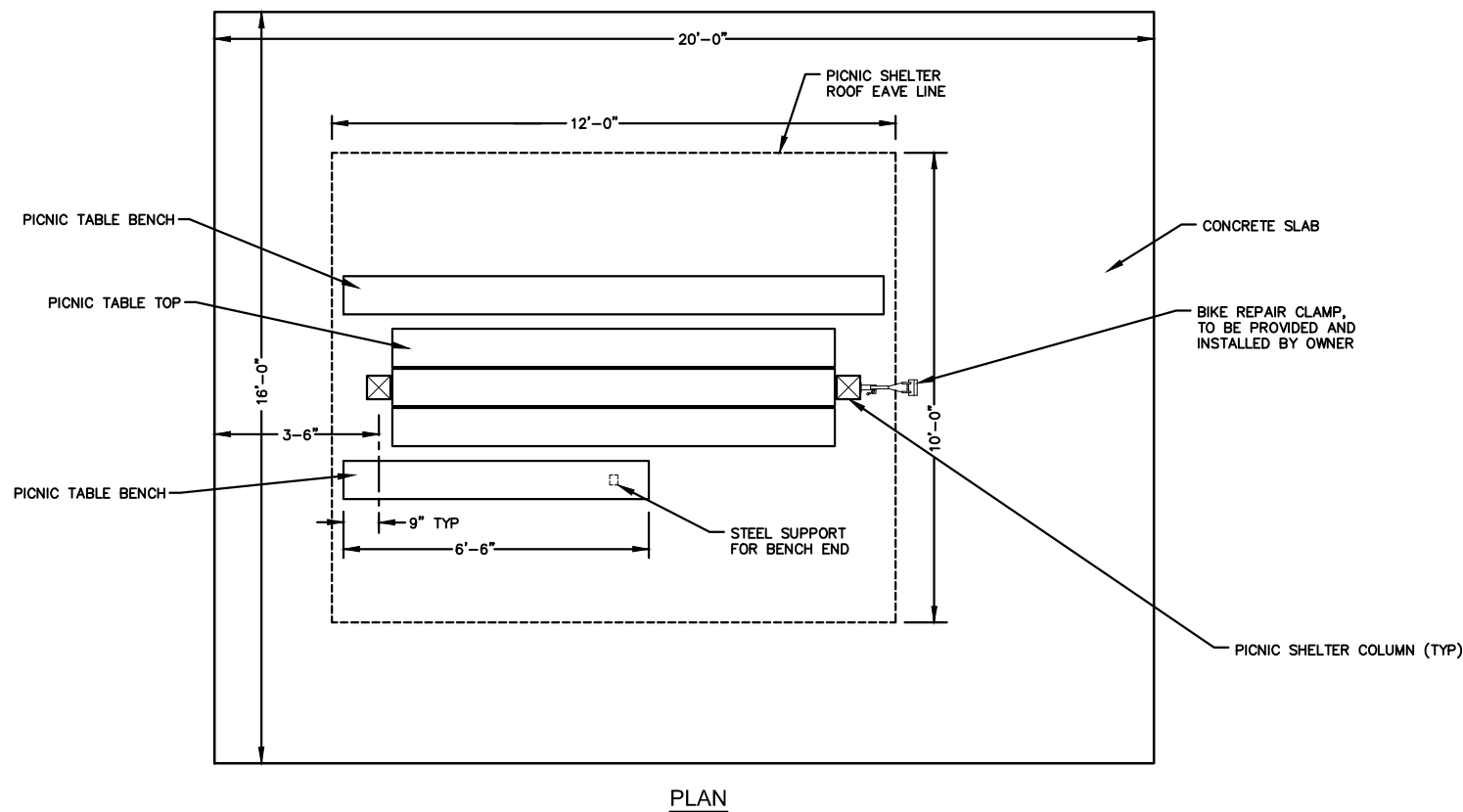
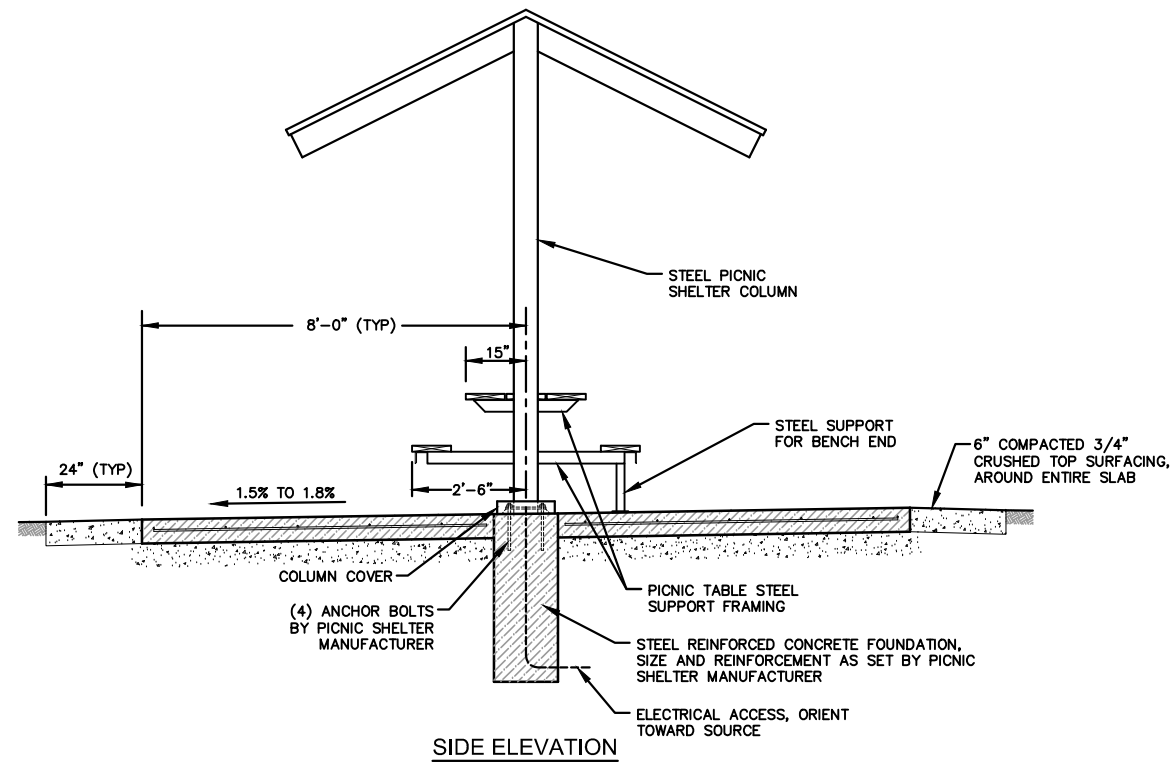
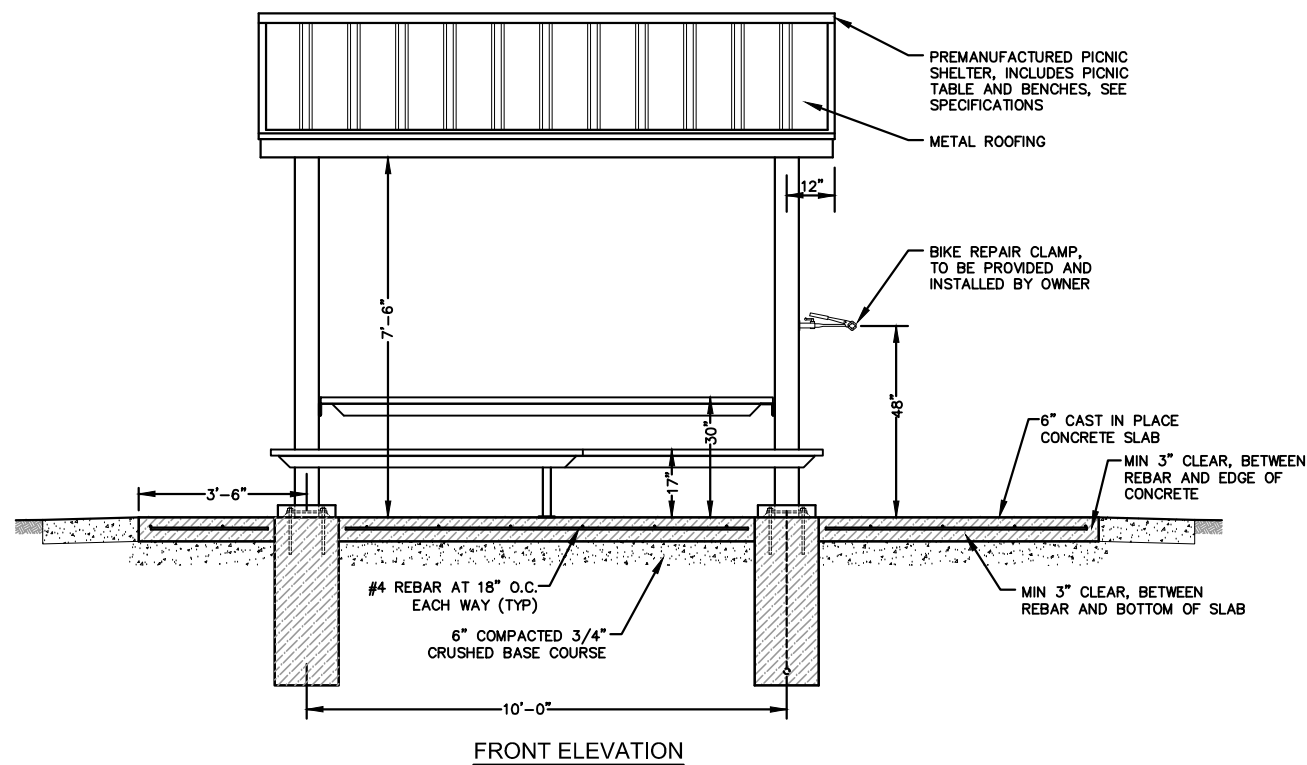
Diagram illustrating the cross-section of a curb and gutter installation, showing the placement of rebar and materials:


- SET REBAR 1/4" BELOW TOP SURFACE OF 4x4
- 4x4 REDWOOD
- 3/8" PEA GRAVEL
- 3/4" MINUS CRUSHED BASE COURSE
- 24" LONG #4 REBAR AT 18" ON CENTER

SECTION A



JEFFREY L. LARSON  
9455 P.E.  
3-11-06  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF MONTANA



10x12 PICNIC SHELTER   
NO SCALE C1,C2



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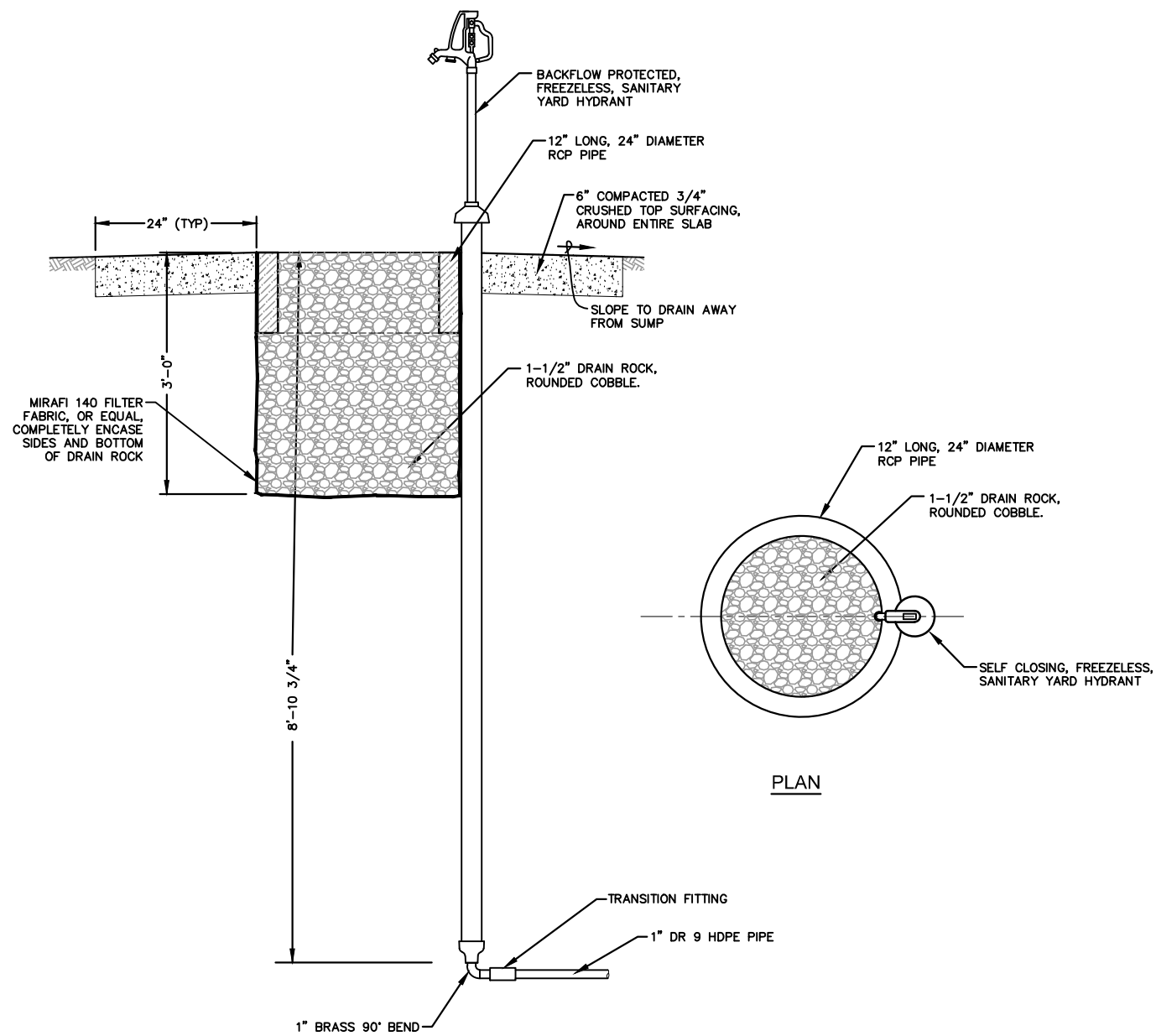
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**PICNIC SHELTER DETAILS**  
RECREATIONAL BICYCLE CAMPING PROJECT  
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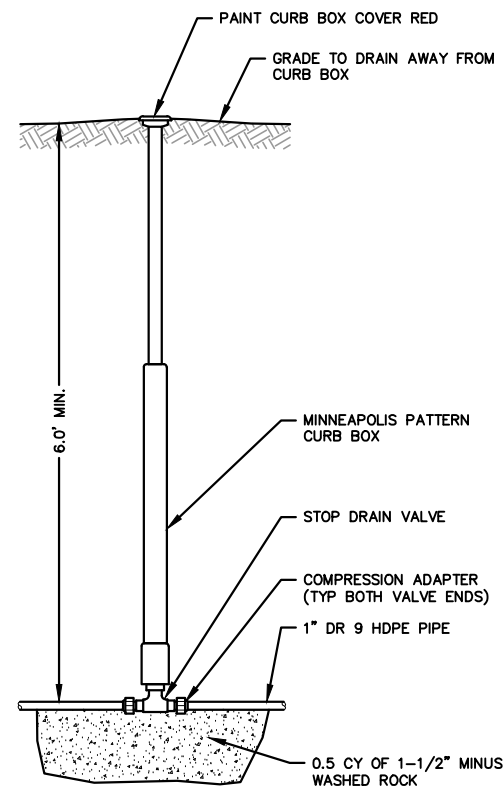
SHEET: **C5**



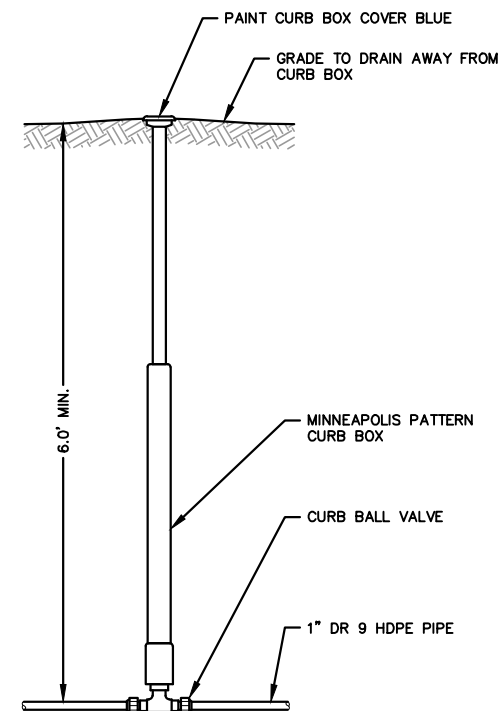
PLAN

SECTION

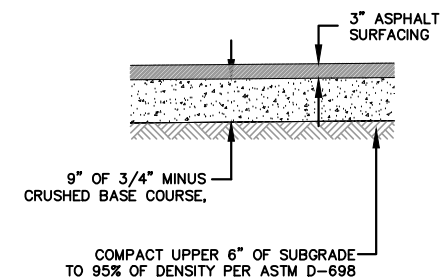
CAMPGROUND WATER SPIGOT H  
C1,C2  
NO SCALE



STOP DRAIN VALVE DETAIL C1,C2  
NO SCALE



CURB VALVE DETAIL J  
C1,C2  
NO SCALE



ASPHALT SECTION K  
C1  
NO SCALE



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**WATER DETAILS**  
RECREATIONAL BICYCLE CAMPING PROJECT  
SALMON LAKE AND PLACID LAKE STATE PARKS  
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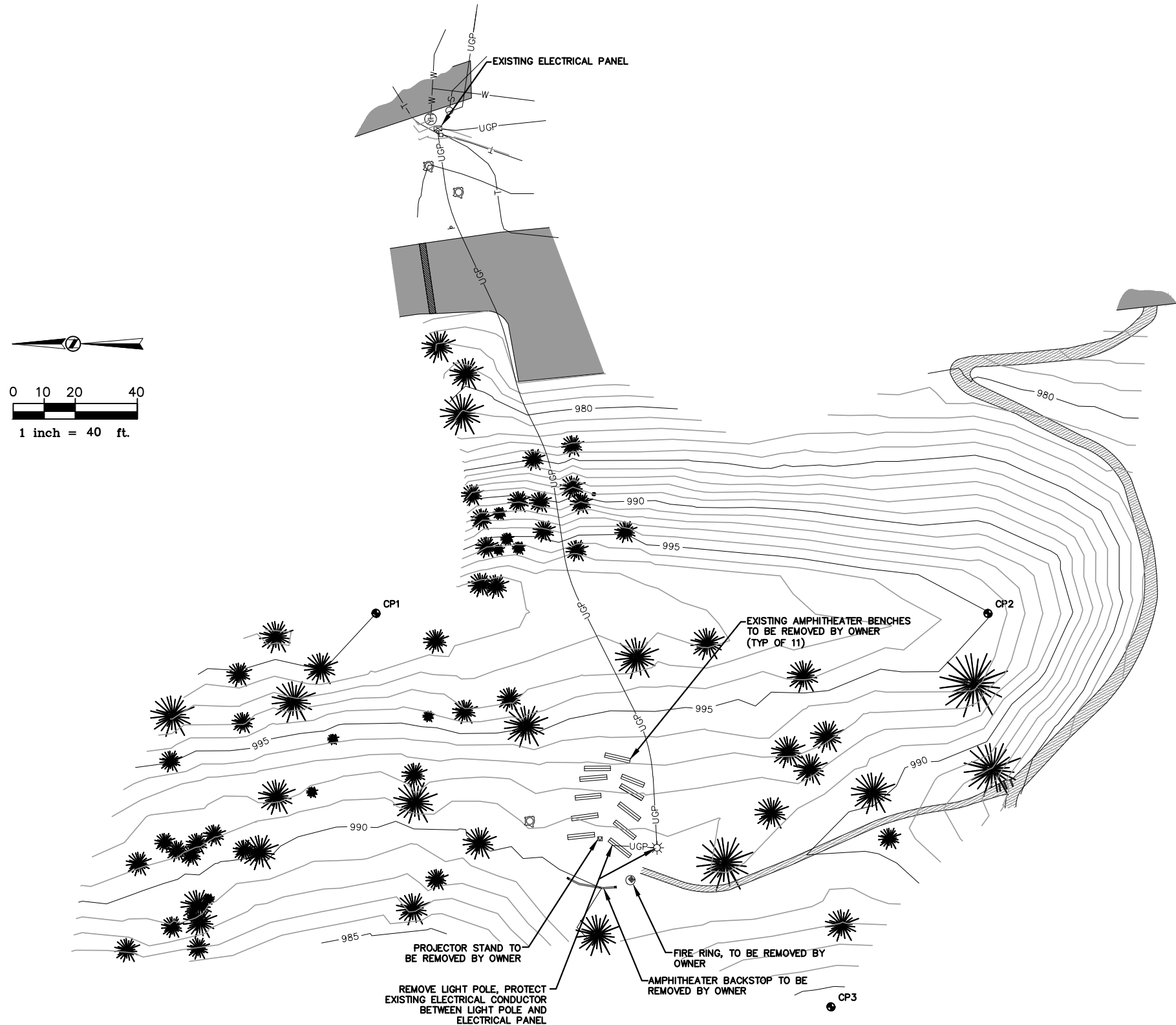


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jeff@larsonce.com

SHEET:

C6





### LEGEND

#### EXISTING FEATURES

- BUILDING
- ASPHALT
- LIGHT POLE
- SIGN
- CONIFER TREE
- TRAIL
- YARD HYDRANT
- ELECTRICAL PANEL OR TRANSFORMER
- FIRE RING
- STUMP
- BENCH
- BACKSTOP
- PROJECTOR STAND
- TELEPHONE
- UGP — UNDERGROUND POWER
- S — SEWER
- W — SEWER

#### PROPOSED FEATURES

- CONCRETE
- 1" W — HDPE WATER PIPING
- UGP — UNDERGROUND POWER
- 2 COMPARTMENT FOOD STORAGE LOCKER
- CAMPFIRE RING
- WATER SPIGOT
- BIKE RACK
- TRASH RECEPTACLE
- NEW TRAIL
- NEW CURB VALVE
- NEW STOP DRAIN VALVE
- TENT PAD
- PICNIC SHELTER
- EL 994.3 — SPOT ELEVATION

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**SALMON LAKE DEMOLITION PLAN**  
RECREATIONAL BICYCLE CAMPING PROJECT  
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